TASK 4 – Kubernet Using Shell Script

Step 1: MiniKube

Start the minikube using minikube start command

```
thamil@LAPTOP-EIEIUD80:~$ minikube start --driver=docker

minikube v1.35.0 on Ubuntu 24.04 (amd64)

Using the docker driver based on user configuration

Using Docker driver with root privileges

Starting "minikube" primary control-plane node in "minikube" cluster

Pulling base image v0.0.46 ...

Downloading Kubernetes v1.32.0 preload ...

> preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 3.62 Mi

> gcr.io/k8s-minikube/kicbase...: 500.31 MiB / 500.31 MiB 100.00% 2.65 Mi

Creating docker container (CPUs=2, Memory=2200MB) ...

Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...

• Generating certificates and keys ...

• Booting up control plane ...

• Configuring RBAC rules ...

Configuring bridge CNI (Container Networking Interface) ...

Verifying Kubernetes components...

• Using image gcr.io/k8s-minikube/storage-provisioner:v5

Enabled addons: storage-provisioner, default-storageclass

Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

Step 2: Folder Creation

Create a folder named task4

thamil@LAPTOP-EIEIUD80:~\$ mkdir task4

Step 3: New Yaml File

Create a new vim file named devops.yaml

thamil@LAPTOP-EIEIUD80:~/task4\$ vim devops.yaml

Step 4: Yaml file

Enter the yaml file code using the insert

```
| State | Stat
```

Step 5: Apply

Apply the changes made in the devops.yaml file

```
thamil@LAPTOP-EIEIUD80:~/task4$ kubectl apply -f devops.yaml deployment.apps/springboot-app configured service/springboot-app configured
```

Step 6: Get Pods

Get the pods information to check if it is running or not.

```
thamil@LAPTOP-EIEIUD80:~/task4$ kubectl get pods

NAME READY STATUS RESTARTS AGE
petclinic-596749d98f-2b2wv 1/1 Running 0 27m
springboot-app-dc797-4qzt4 1/1 Running 0 13s
```

Step 7: Service

Open the service springboot-app in the browser

Step 8: Output

The output is shown in the browser in the localhost url present

acewcwededwedu



???welcome Aranganathan 79998wdd???



